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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,680	11/04/2003	Hyo Sig Jean	SI-0047	4923

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Chantilly, VA 20153-1200

EXAMINER

CASCA, FRED A

ART UNIT	PAPER NUMBER
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2617

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/22/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/699,680

Applicant(s)

JEAN, HYO SIG

Examiner

Fred A. Casca

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-14, 16 and 20-29 is/are rejected.
- 7) ☒ Claim(s) 15 and 17-19 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11/04/03 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections –35 U.S.C. 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-10, 12, and 20-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Julka et al (US 2004/0063431 A1).

Referring to claim 1, Julka discloses a dormant control system in a packet data service network (abstract and figures 1-3B) comprising a mobile station that provides information indicating whether the mobile station supports a dormant function using a specific message (Figures 1-3B); and a base station controller that receives the specific message from the mobile station and determines whether to conduct the dormant function (paragraph 14 and figures 1-3B, "BSC", "recognize that the mobile station has additional packet data service instances requiring additional dormant handoffs").

Referring to claim 2, Julka discloses the dormant control system according to claim 1, wherein the specific message is a message used between the mobile station and the base station controller or a message that is provided between the mobile station and the base station controller (par 15, figures 1-3B).

Referring to claim 3, Julka discloses the dormant control system according to claim 2, wherein said specific message indicates whether the mobile station supports the dormant function or not by using a field that is not used otherwise in said specific message (par 18, note that when an indication in a channel is not mentioned about an information then the channel (field) is inherently non used).

Referring to claim 4, Julka discloses the dormant control system according to claim 2, wherein the message that is used between the mobile station and the base station controller is a service connect complete message received from the mobile station and the message that is provided between the mobile station and the base station controller is a mobile station's state response message that is provided in response to the state request message of the base station controller (figures 1-3B and paragraphs 29-31).

Referring to claim 5, Julka discloses the dormant control system according to claim 1, wherein said specific message is a separate notice message concerning dormant function support through which the mobile station indicates whether the mobile station supports the dormant function or not (figures 1-3B, and paragraphs 29-33).

Referring to claim 6, Julka discloses the dormant control system according to claim 1, wherein the base station controller comprises a call control processor (CCP) that transmits information related to dormant control and service option information of

Art Unit: 2617

the mobile station if a mobile origination message is received from the mobile station through the base station transceiver subsystem (figures 1-3B, note that a call control processor in the control unit of a packet data network is inherent); and a selection and distribution unit (SDU) that reviews the service option information and timer information received from the CCP, and if the packet data service option is indicated in the received information prepares for determination of whether the mobile station supports the dormant function, generates a service connection message (figures 1-3B, paragraphs 31-35 and 40 and 54) and transmits the service connection message to the mobile station, upon receiving the specific message from the mobile station and confirming the information on whether the dormant function is supported, drives the dormant timer, and upon determining whether the mobile station supports the dormant function by confirming the driving of the dormant timer in the active/connected state, conducts the dormant function (figures 1-3B, and paragraphs 31-35 and 40 and 54).

Referring to claims 7-10 and 12, claims 7-10 and 12 define a dormant control method reciting features analogous to the features of the dormant control system of claims 1-5 respectively (as rejected above). Thus, Julka discloses all elements of claims 7-10 and 12 (please see the rejection of claim 1-5 above).

Claim 20 defines a method for managing call processing in a packet data service network reciting features analogous to the features of the dormant control system of claim 1 (as rejected above). Thus Julka discloses all elements of claim 20 claim (please see the rejection of claim 1 above).

Referring to claim 22, Julka discloses the method of claim 20 and further disclose receiving service option information from the mobile station; and determining whether the mobile station supports the dormant function if the service option information indicates a predetermined types of service (figures 1-3B, and paragraphs 14 and 25-31).

Referring to claim 23, Julka discloses the method according to claim 22, wherein the predetermined type of service is a packet data service (paragraphs 14 and 24-23).

Referring to 24, Julka discloses the method according to claim 23, further comprising accessing the information in said message indicating whether the mobile station supports the dormant function in response to the determining step (please see the rejection of claim 1).

Referring to claim 25, Julka discloses the method according to claim 20, wherein said message is a pre-existing message transmitted in the network, and the information indicating whether the mobile station supports the dormant function is included in a predetermined field of the pre-existing message (paragraphs 32, 31 and 8).

Referring to claim 26, Julka discloses the method according to claim 26, wherein the field is an unused field or a reserved field of pre-existing message (paragraphs 8, 31-32).

Referring to claim 27, Julka discloses the method according to claim 26, wherein said message is a service connect complete message (figures 1-3B and paragraphs 28-34).

Art Unit: 2617

Referring to claim 28, Julka discloses the method of claim 26 and further disclose the message is a state response message to a state request message issued from a base station controller (paragraphs 8, 24-29, 31-3).

Referring to claim 29, Julka discloses the method of claim 20 wherein said message is special message created to indicate mobile station supporting the dormant function (please see rejection of claims 1 and 20).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Julka (US 2004/0063431 A1).

Referring to claim 14, Julka discloses the dormant control method according to claim 7, and further disclose provision of the dormant function comprises analyzing at the base station controller dormant support information within the certain message received from the mobile station (figures 1-3B, and par 24-29), if it is determined that the mobile station supports the dormant function (figures 1-3B, and par 26-29) requesting at the base station controller for interface registration in order to transmit sighting information to a PDSN, receiving a response thereto and then notifying the mobile switching center of completion of the resource assignment; establishing a PPP

Art Unit: 2617

connection between the mobile station and the PDSN and conducting a mobile IP registration procedure, thereby transmitting and receiving packet data in an active/connected state (figures 1-3B, note that requesting is inherent).

Julka additionally discloses in a different embodiment a dormant timer.

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the system of Julka by adding a timer to make the system because the timer is able to give mobile station limited time to respond.

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the system of Julka by adding a timer for the purpose of providing an efficient dormant handoff system.

Referring to claim 16, Julka discloses a dormant control method in the packet data service network (abstract and figures 1-3B), comprising transmitting a service connect complete message including information on whether the mobile station supports the dormant function or not in the packet data service network (paragraph 14 and figures 1-3B, "BSC", "recognize that the mobile station has additional packet data service instances requiring additional dormant handoffs"); and upon receiving the service connect complete message at the base station controller and analyzing whether the mobile station supports the dormant function, and when packet data is transmitted and received in the active/connected state, determining whether the is in operation and providing the dormant function (paragraphs 14, 24-29 and figures 1-3B).

Julka further discloses in separate embodiment a dormant timer.

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the system of Julka by adding a timer to make the system because the timer is able to give mobile station limited time to respond.

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the system of Julka by adding a timer for the purpose of providing an efficient dormant handoff system.

5. Claims 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Julka (US 2004/0063431 A1) in view of well known prior art (MPEP 2144.03).

Referring to claim 11 and 13, Julka discloses the dormant control method according to claim 10 and 12.

Julka does not specifically disclose the specific field for transmission, reception and confirmation messages as described by the applicant.

However, it is well known in the art, particularly in packet transmission via frames, that frames include such information fields for the benefit of confirming message transmission and therefore efficient communication.

Thus, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify the system of Julka by the teachings of prior art for the purpose of providing an efficient communication system.

Allowable Subject Matter

6. Claim 15 and 17-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

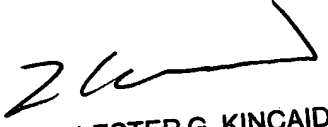
7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hsu et al, U.S. Pub. No. 2004/0071112 A1 discloses dormant handoff in packet data networks

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred A. Casca whose telephone number is (571) 272-7918. The examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid, can be reached at (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


LESTER G. KINCAID
SUPERVISORY PRIMARY EXAMINER